

# TP 10: Probabilistic primality tests

Jean-Sébastien Coron

Université du Luxembourg

## 1 Modular exponentiation

Implement the square and multiply algorithm with large integers.

## 2 Fermat test

Implement the Fermat test of primality with small integers, and then with large integers.

## 3 Miller-Rabin

Implement the Miller-Rabin test of primality with small integers, and then with large integers.